

Test faster. Test with Functionize.

Applications change over time. So should your tests.

Functionize provides a suite of intelligent test automation tools powered by machine learning. Our tools allow anyone to build automation, test smarter, and release faster. Traditional automated tests are brittle, constantly break, and require manual upkeep. Empower your teams to build AI-Powered tests that don't break and reach peace of mind. You focus on delivering great software, and let machine learning supercharge your tests.



Functionize Recognized as a Gartner Cool Vendor

Leading the industry in innovation

Gartner's Cool Vendor research recognizes innovative vendors in agile and devops products. Read the report to see what differentiates Functionize from others in the agile and devops market.



How it works

Functionize tests run differently. Unlike traditional test automation, our system is constantly fine-tuning a detailed machine learning model of your application based on your tests. We capture every piece of detail for every test step, including screenshots, DOM data, CSS, and even timing data. These millions of data points are collected and analyzed every time your test runs.

Why does this matter? Your test definition is an ever-expanding dataset from every execution. This allows the system to understand the intent behind your tests and adapt intelligently to change. When you update your application, your tests self heal, saving your team precious time to create more automated tests!

Machine Learning You Can Trust

Our expert team of data scientists analyzed models from hundreds of terabytes of data from millions of tests, maturing our machine learning models over the past 6 years. We combined numerous machine learning techniques with traditional data science practices, resulting in 99.9% model accuracy, the highest in the industry! Machine learning techniques embedded in Functionize include:

- Supervised and unsupervised learning
- Computer vision - image recognition
- Natural language processing
- Template recognition

End-to-end Capabilities to Accelerate Testing



Support for complex flows

Build tests for even the most complicated end-to-end scenarios:

- Create orchestrations for sequential test suites or large-scale data-driven tests
- Generate random test data (to validate forms)
- Verify Email, Text Message, Database, APIs, and File Testing (PDF, HTML, CSV, XLS)



Highly scalable

Eliminate testing infrastructure costs. All tests run in the Functionize Test Cloud, which means you can launch:

- Up to tens of thousands in parallel
- Across browsers, including mobile
- From different geographies for localized tests



Smart creation

We give you 3 ways to create AI-based tests in minutes:

- 1 Architect** is our super-smart test recorder: anyone can create tests rapidly, using an intuitive interface, easy drag and drop editing, and the ability to extend tests with code
- 2 Natural Language Processing:** create tests using plain-text English, making migrations super easy!
- 3 Autonomous Test Cases:** generate tests from how real users interact with your system



Low maintenance

Save time wasted by test maintenance. Our platform autonomously self-heals your tests or recommends 1-click SmartFixes, so you can trust your tests and more easily find real bugs in your application.

Save time editing tests instead of a full rerun with:

- **Smart Screenshots:** select elements or add steps directly from screenshots
- **Live Debug:** edit tests directly in a clean container



Migrations

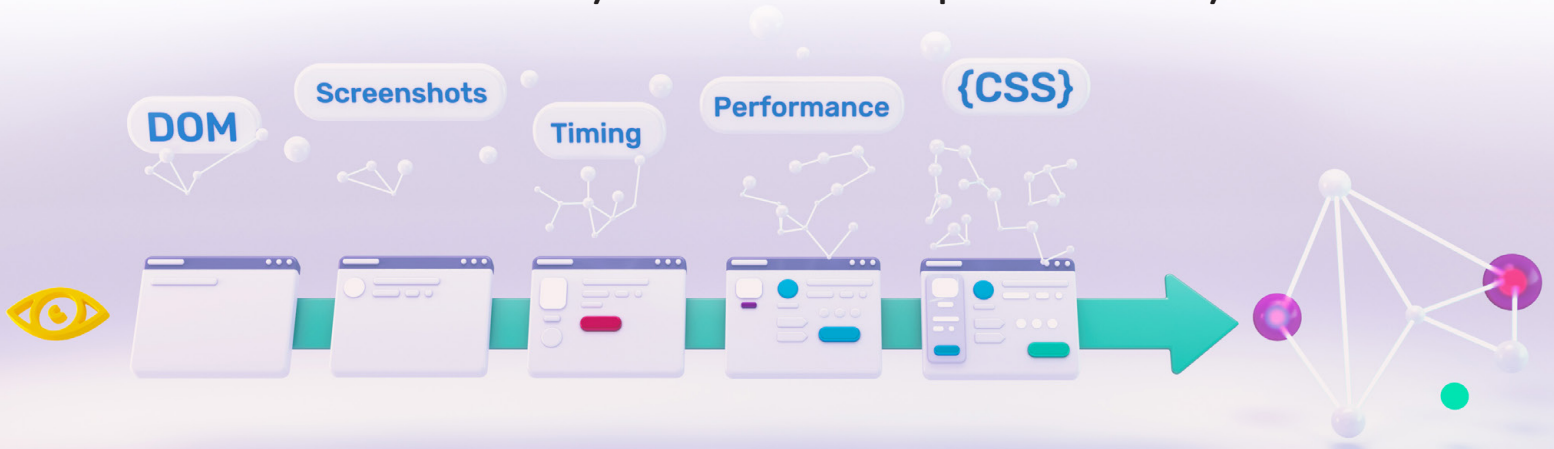
Need help converting your tests? Leverage our network of global service providers to help you migrate your existing tests from Selenium into Functionize.



Rich analysis

Our visual testing analysis verifies full pages and elements to highlight what changed between runs. Visual completion time metric shows when a user can actually interact with your application.

AI-assisted tests are dynamic and adapt with every execution



Challenges with Test Automation

At Functionize, we speak to customers every day who struggle with test automation. They thought that Selenium would be the solution. Instead, it became the problem. Legacy tools and even other next gen solutions still fall short. Here are just some of the limitations:

		Functionize AI-Powered Test Automation	Selenium	Legacy Tools*	Other Next Gen*
Platform	Web / SaaS solution	✓	✗ <i>desktop</i>	✗ <i>desktop</i>	✓
	Multi-Deployment Options (Cloud, On Prem)	✓	✗ <i>OnPrem only</i>	✗ <i>OnPrem only</i>	✗ <i>Cloud only</i>
Test Creation	No Code / Low Code	✓	✗	✓	✓
	Natural Language Tests (NLP)	✓	✗	✗	✗
	Autonomous Usage Based Creation	✓	✗	✗	✗
	Custom Reusable Code	✓	✗	✗	✗
Intelligence	Big Data - Non Scripted Tests	✓	✗	✗	✗
	Automate manual tests written in plain-text English using natural language processing	✓	✗	✗	✗
	Dynamic self-healing tests	✓	✗	✗	✓
	A/B Test Learning	✓	✗	✗	✗
	Trend Analysis - Anomaly Detection	✓	✗	✗	✗
	Integrated Visual Testing	✓	✗	✗	✗
	SmartFix Update Suggestions	✓	✗	✗	✗
	Screenshot Selection Updates	✓	✗	✗	✗
	Lazy Loading Support	✓	✗	✗	✗
Advanced Execution	Mobile Web	✓	✗	✗	✓
	Cloud Execution	✓	✗	✗	✓
	Live Debugging on the VM	✓	✗	✗	✗
	Built-in Timing Analysis	✓	✗	✗	✗
Extensible Testing	Email, Text Message, Database, API Testing, File Testing	✓	✗	✗	✗
	Native test data generation	✓	✗	✗	✗
Support	Industry Leading Global Customer Support	✓	✗ <i>Community support</i>	✓	✓

* Criteria: if more than 1 competitor in the category has the capability, the category will be marked as ✓

Results

85%

Time Saved

From fixing broken tests

10x

Faster

Create at least 10 Functionize tests in the time to create 1 Selenium test

5x

Coverage

Increase % automated from 10% to 50%

80%

Cost Reduction

Save infrastructure costs with Functionize Test Cloud

Trusted by Industry Leading Enterprises Worldwide



Functionize offers an easy way for us to test a highly dynamic and complex production site, ensuring that not only the functionality, but the look and feel for our site is world class.

I am so happy my company chose to work with Functionize. I quickly learned a choice to use Functionize is a choice for success.

Functionize has a fast learning curve and therefore anyone, right from automation experts to business users can utilise this tool to write effective test cases, thus speeding up the testing cycle of an application.

Seamlessly integrate with your existing tools



Welcome to the
Future of Testing

functionize.com

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